

What is claimed is:

1. A night light comprising:
a base having blade contacts for insertion into an electrical receptacle;
a cover member having a lens affixed thereto;
a lamp support member for receiving a lamp for emitting light through the lens, the lamp support member being non-rotatably coupled to the cover member at a first end and rotatably coupled to the base member at a second end; and,
a light sensor coupled to the base member to control activation of the lamp in response to the ambient light level.
2. The night light of claim 1 wherein the cover member is rotatable without limitation relative to the base member.
3. The night light of claim 1 wherein rotation of the cover member and lens affixed thereto redirects light emitted through the lens.
4. The night light of claim 1 further comprising;
a first electrical contact coupled to a first blade contact and a second electrical contact coupled to a second blade contact wherein the first and second contacts are slidably coupled to base contacts of the lamp via a PCB board.
5. The night light of claim 4 wherein the lamp support member supports outwardly projecting protrusions adapted to be held captive by a support member of the cover member.
6. The night light of claim 5 wherein the support member of the cover member has an opening for receiving the lamp.
7. The night light of claim 6 wherein the base member comprises:

a first section and a second section which connect together, wherein the first section has a first portion of a retaining wall and a first section of an opening, and

the second section has a second portion of the retaining wall and a second section of the opening wherein the first and second sections of the opening support the second end of the lamp support member.

8. The night light of claim 7 wherein the second end of the lamp support member is funnel shaped.

9. The night light of claim 8 wherein the first and second sections of the opening fit around and are rotatably coupled to the second end of the lamp support member.

10. The night light of claim 1 further comprising:
a support member located within the cover member having a centrally located opening and recesses for receiving and holding captive the lamp support member.

11. The night light of claim 10 wherein the recesses support latch members engage and retain the first end of the lamp support member captive to the support member.

12. The night light of claim 11 wherein the first end of the lamp support member supports arms which fit within the recesses in the support member and are retained in place by the latch members.

13. The night light of claim 12 wherein the second end of the lamp support member supports a radially extending protrusion which rotatably engage a retaining wall of the base member.

14. The night light of claim 13 wherein the retaining wall of the base member rotatably engages the second end of the lamp support member between the radially extending protrusion and the support member of the cover member.

15. The night light of claim 14 wherein the radially extending protrusion at the second end of the lamp support member is an outwardly extending flange.

16. The night light of claim 14 wherein the radially extending protrusion at the second end of the lamp support member is funnel shaped.

17. The night light of claim 16 wherein the large diameter of the funnel shaped end of the lamp support member is at the far end of the second end.

18. A power supply circuit for an LED comprising:
a resistor,
a diode,
an LED, and
a capacitor, all connected in series and adapted to be connected to a source of AC potential wherein the value of the current in the series circuit is determined by the value of the impedance of the resistor in series with the capacitor.

19. A power supply circuit for an LED comprising:
a capacitor;
an LED coupled in parallel with a diode and in reverse polarity with respect to the diode; and
a resistor coupled in series with the capacitor and with the LED in parallel with the diode wherein the circuit is adapted to be connected to a source of AC potential and wherein the impedance of the capacitor in series with the resistor is selected to limit the current in the LED, and the diode is provided to block AC current when its polarity is such that the LED is reversed biased

20. A power supply circuit for an LED comprising:
a capacitor coupled in series with an LED coupled in series with a resistor; and
a diode coupled in parallel with the LED in series with the resistor and in reverse polarity with respect to the LED; wherein the circuit is adapted to be connected to a source of AC potential and wherein the impedance of the resistor is selected to limit the inrush current in the LED, and the diode is provided to block AC current when its polarity is such that the LED is reversed biased.

21. A power supply circuit for an led comprising:
a series circuit of a capacitor and a resistor;
a bridge rectifier having first and second input terminals and first and second output terminals where the first input terminal of the bridge rectifier is coupled to the series circuit and wherein the series circuit and the second input terminal of the bridge rectifier are adapted to be coupled to a source of AC potential; and
an LED coupled across the first and second output terminals of the bridge rectifier wherein the bridge rectifier rectifies the AC potential to provide DC current to the LED.

22. A power supply circuit for an LED comprising:
a capacitor;
a bridge rectifier having first and second input terminals and first and second output terminals where the first input terminal of the bridge rectifier is coupled to the capacitor and wherein the capacitor and the second input terminal of the bridge rectifier are adapted to be coupled to a source of AC potential; and
a resistor in series with an LED is coupled across the first and second output terminals of the bridge rectifier wherein the resistor limits the inrush of current and the bridge rectifier rectifies the AC potential to provide DC current to the LED.

23. A power supply circuit for an LED comprising:
a series circuit of a first diode, a first LED, a resistor and a capacitor adapted to be connected to a source of AC potential; and a series circuit of a second LED and a second diode coupled in reverse polarity and parallel with the first diode and the first LED wherein

the first diode is connected to block negative half waves wherein the first and second diodes light alternately on each half of an AC wave.

24. A night light comprising:

a base having blade contacts for insertion into an electrical receptacle;

a cover member having a lens affixed thereto;

a lamp support member for receiving an LED for emitting light through the lens, the lamp support member being non-rotatably coupled to the cover member at a first end and rotatably coupled to the base member at a second end; and,

a light sensor coupled to the base member to control activation of the lamp in response to the ambient light level.

25. The night light of claim 24 further comprising a power supply circuit for the LED comprising:

a resistor,

a diode,

an LED, and

a capacitor, all connected in series and adapted to be connected to a source of AC potential wherein the value of the current in the series circuit is determined by the value of the impedance of the resistor in series with the capacitor,

a diode,

an LED, and

a capacitor, all connected in series and adapted to be connected to a source of AC potential wherein the value of the current in the series circuit is determined by the value of the impedance of the resistor in series with the capacitor.

26. A power supply circuit for an LED comprising:

a resistor,

a diode,

an LED, and

an inductor, all connected in series and adapted to be connected to a source of AC potential wherein the value of the current in the series circuit is determined by the value of the impedance of the resistor in series with the inductor.